

ABSTRACT

In a computer system containing an object server, a method and apparatus for providing access to objects and methods via arbitrary remote protocols is disclosed. This includes a mechanism known as the protocol adapter framework that allows protocol adapters to manage remote socket sessions, encrypt communication on this session, translate text to the local character set, perform security validation of the remote user, log incoming work requests, classify the incoming work request for differentiated service purposes, and queue the work for execution. Also, included is a mechanism to invoke the protocol adapter in order to manipulate output from the execution of a method on a server object and send it back to the original requester. This allows the implementers of objects and methods that reside in the object server rather than the owner of the object server to provide a protocol adapter that allows communication with remote clients using any arbitrary protocol that the object implementer deems appropriate. In this way, the object implementer can enjoy benefits such as differentiated service, workload recording, server object process management, process isolation, error logging, systems management and transactional services of running objects in a robust object server container.